

# **METHOD FOR STABLE ESTIMATION OF ANISOTROPIC PARAMETERS FOR P-WAVE PRESTACK IMAGING**

## **Abstract**

A method is disclosed for determining interval anelliptical parameters. The method includes determining normal moveout velocities and effective anelliptical parameters from seismic data traces. The normal moveout velocities are processed to obtain interval velocities. The normal moveout velocities, effective anelliptical parameters and interval velocities are inverted to obtain the interval anelliptical parameters. In one embodiment, the inversion includes damped least squares. In one embodiment, the inversion is preconditioned.